

WHAT IS CLAIMED IS:

1. A computer-readable medium having stored thereon an instruction set to be executed, the instruction set, when executed by a processor, causes the processor to perform a computer method of:

receiving an input/output request formatted in accordance with an application programming interface;

generating an input/output request formatted in accordance with an adapter interface layer; and

submitting the generated input/output request to the adapter interface layer.

2. The computer-readable medium according to claim 1, wherein generating an input/output request further comprises:

parsing one or more field values from a data structure referenced by the received input/output request; and

inserting the parsed field values into respective fields of a data structure formatted in accordance with the adapter interface layer.

3. The computer-readable medium according to claim 2, wherein parsing one or more field values further comprises parsing one or more member values of a request block data structure formatted according to the application programming interface, and inserting the parsed field values further comprises assigning the parsed member values to members of a request block data structure formatted according to the adapter interface layer.

4. The computer-readable medium according to claim 1, wherein generating an input/output request formatted according to an adapter interface layer further comprises generating the input/output request formatted according to a pass-through interface of an operating system, and submitting the generated input/output request to the adapter interface layer further comprises submitting the generated input/output request to the pass-through interface.

5. The computer-readable medium according to claim 1, wherein the instruction set, when executed by the processor, further causes the processor to perform the computer

method of identifying a command type of the received input/output request, and generating the input/output request further comprises generating the input/output request having a command type corresponding to the identified command type.

6. The computer-readable medium according to claim 5, wherein identifying a command type of the received input/output request further comprises parsing a command type from a field of a data structure referenced by the received input/output request, and generating the input/output request further comprises assigning a control code corresponding to the identified command type to an argument of the generated input/output request.

7. The computer-readable medium according to claim 1, wherein submitting the generated input/output request further comprises conveying the generated input/output request to a host adapter.

8. The computer-readable medium according to claim 7, wherein conveying the generated input/output request to a host adapter further comprises conveying the generated input/output request to a small computer system interface host adapter.

9. The computer-readable medium according to claim 1, wherein the instruction set, when executed by the processor, further causes the processor to perform the computer method of:

receiving a return data set formatted in accordance with the adapter interface layer;
and

translating the return data set into a format compatible with the application programming interface.

10. The computer-readable medium according to claim 9, wherein the translated return data set is conveyed to a client application that generated the received input/output request.

11. A method for processing an input/output request in a computer system, comprising:

receiving, by a translation layer comprising a set of computer-readable instructions, an input/output request formatted in accordance with an application programming interface;

generating, by the translation layer, an input/output request in a format compatible with an adapter interface layer of an operating system; and

submitting the generated input/output request to the adapter interface layer.

12. The method according to claim 11, further comprising conveying, by the adapter interface layer, the generated input/output request to a host adapter.

13. The method according to claim 11, further comprising receiving, by the adapter interface layer, a return data set formatted in accordance with the adapter interface layer.

14. The method according to claim 13, further comprising:
conveying, by the adapter interface layer, the return data set to the translation layer;
and

translating, by the translation layer, the return data set into a format compatible with the application programming interface.

15. The method according to claim 14, further comprising conveying the translated return data set to an application that originated the received input/output request.

16. A computer system for processing an input/output request, comprising:
a processing element;
a host adapter; and
a local interface communicatively coupling the processing element and the host adapter, the processing element operable to execute a set of computer-readable instructions operable to receive an input/output request formatted in accordance with an application programming interface and generate an input/output request formatted in accordance with an adapter interface layer of an operating system, the generated input/output request dependent upon the received input/output request, the processing element operable to submit the generated input/output request to the adapter interface layer.

17. The system according to claim 16, wherein the adapter interface layer conveys the generated input/output request to the host adapter.

18. The system according to claim 16, further comprising a peripheral device communicatively coupled with the local interface via the host adapter.

19. The system according to claim 18, wherein the peripheral device provides a return data set formatted in accordance with the adapter interface layer to the host adapter in response to receipt of the generated input/output request.

20. The system according to claim 16, wherein the adapter interface layer is operable to receive a return data set formatted in accordance with the adapter interface layer from the host adapter in response to processing of the generated input/output request, the adapter interface layer submitting the return data set to a translation layer.

21. The system according to claim 20, wherein the translation layer translates the return data set into a format compatible with the application programming interface.

22. The system according to claim 16, further comprising an application operable to generate the received input/output request, the application operable to receive a return data set formatted in accordance with the application programming interface.